

PDR RID Report

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Document PDR

RID ID PDR 35
Review FOS
Originator Ref rad-fospdr-004
Priority 2

Section NA **Page** NA **Figure Table** NA

Category Name I&T **Actionee** HAIS
Sub Category
Subject Comparison of Bit-level Command Files

Description of Problem or Suggestion:

As part of command monitoring, the IST allows users to monitor ground scripts. However, there does not seem to be the capability to access bit-level command files since it is proposed that the EOC will generate these bit-level files "on the fly" as the are needed for transmission to the spacecraft.

Perhaps it has been decided that access to bit-level command files are not necessary in an operational environment, however at some point it will be necessary to verify that the EOC command translators produce the same bit-level results as those produced by the instrument contractors. An excellent test is the direct comparison of the bit level files produced by the two sources. The AIRS instrument contractor will be providing bit level command translations, but it is unclear when and how these will be compared with the output of the EOC translators.

Originator's Recommendation

Please address the capabilities needed for this bit-level command testing and the timeline on which you foresee these tests occurring.

GSFC Response by: **GSFC Response Date**

HAIS Response by: D. Herring **HAIS Schedule** 1/13/95

HAIS R. E. D. Dunn **HAIS Response Date** 1/24/95

Operators will be given the capability to view the most current command in its binary format. Additionally, event messages will be issued for each command uplinked, and will contain the hex format of the uplinked command. As is true for all event messages, these event messages will be stored in the event log where they may be retrieved for comparison with bit-level results produced by the instrument contractors.

Reference the FOS I&T Plan for details on command testing plans.

Status Closed **Date Closed** 2/1/95 **Sponsor** Johns

***** Attachment if any *****
